

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/549,352
Source: PCT
Date Processed by STIC: 09/28/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/24/05

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/549,352</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: <u>Unknown</u> , <u>Artificial Sequence</u> , or <u>scientific name (Genus/species)</u> . <220>-<223> section is required when <213> response is <u>Unknown</u> or <u>Artificial Sequence</u>	
11 <input type="checkbox"/> Use of <220>	Sequence(s) <input type="checkbox"/> missing, the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/549,352

DATE: 09/28/2005
TIME: 13:53:52

Input Set : A:\70237USPCT SEQUENCE LISTING.txt
Output Set: N:\CRF4\09282005\J549352.raw

6 <110> APPLICANT: DRAKE, Caroline Rachel
7 PAINE, Jacqueline Ann Mary
8 SHIPTON, Catherine Ann
11 <120> TITLE OF INVENTION: ENHANCED ACCUMULATION OF CAROTENOIDS IN PLANTS
14 <130> FILE REFERENCE: 70237USPCT
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/549,352
C--> 16 <141> CURRENT FILING DATE: 2005-09-14
16 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/001241
17 <151> PRIOR FILING DATE: 2004-03-22
19 <150> PRIOR APPLICATION NUMBER: US60/457,053
20 <151> PRIOR FILING DATE: 2003-03-24
22 <160> NUMBER OF SEQ ID NOS: 38
24 <170> SOFTWARE: PatentIn version 3.1
27 <210> SEQ ID NO: 1
29 <211> LENGTH: 5630
31 <212> TYPE: DNA
33 <213> ORGANISM: SYNTHETIC - 12423 Invalid Response, Organism can be either Artificial, Unknown or Genus species, pls see glers #10 on Error Summary Sheet.
37 <400> SEQUENCE: 1

38	gttaatcatg	gtgttaggcaa	cccaaataaaa	acaccaaaat	atgcacaagg	cagttgttg	60
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42	acaatatcat	gagtaatgtg	tgagcattat	gggaccacga	aataaaaaa	acattttgat	180
44	gagtcgtgta	tcctcgatga	gcctcaaaag	ttcttcacc	ccggataaga	aacccttaag	240
46	caatgtgcaa	agtttgcatt	ctccactgac	ataatgaaa	ataagatatac	atcgatgaca	300
48	tagcaactca	tgcatacatat	catgcctctc	tcaacctatt	cattcctact	catctacata	360
50	agtatcttca	gctaaatgtt	agaacataaaa	cccataagtc	acgtttgatg	agtattagc	420
52	gtgacacatg	acaaatcaca	gactcaagca	agataaaagca	aatgtatgt	tacataaaaac	480
54	tccagagcta	tatgtcatat	tgcaaaaaga	ggagagctt	taagacaagg	catgactcac	540
56	aaaaattcat	ttgccttcg	tgtcaaaaag	aggagggtt	tacattatcc	atgtcatatt	600
58	gcaaaaagaaa	gagagaaaga	acaacacaat	gctgcgtcaa	ttatacatat	ctgtatgtcc	660
60	atcattattc	atccacctt	cgtgtaccac	acttcatata	tcatgagtca	cttcatgtct	720
62	ggacattaac	aaactctatc	ttaacattt	gatgcaagag	cctttatctc	actataaatg	780
64	cacgatgatt	tctcatgtt	tctcacaaaa	agcatcagt	tcattagttc	tacaacaacg	840
66	aattcggctt	cccggtaca	ggtaaattt	ctagttttc	tccttcattt	tcttggttag	900
68	gaccctttc	tcttttatt	ttttgagct	ttgattttc	ttaaaactga	tctattttt	960
70	aattgattgg	ttatcgta	aatattacat	agcttaact	gataatctga	ttactttatt	1020
72	tcgtgtgtct	ttgatcatct	tgatagttac	agaaccgtcg	actctagaga	agccattaa	1080
74	atcgccgcca	ccatggcttc	tatgatatcc	tcttcgctg	tgacaacagt	cagccgtgcc	1140
76	tctagggggc	aatccggccgc	agtggctcca	ttcggcggcc	tcaaatccat	gactggattc	1200
78	ccagtgaaga	aggtcaacac	tgacattact	tccattacaa	gcaatggtg	aagagtaaag	1260
80	tgcataaacc	caactacggt	aattggtgca	ggcttcggtg	gcctggact	ggcaattcgt	1320
82	ctacaagctg	cggggatccc	cgtcttactg	cttgaacaac	gtgataaaacc	cggcggtcgg	1380
84	gcttatgtct	acgaggatca	gggtttacc	tttgatgcag	gcccgcacgt	tatcaccgat	1440
86	cccagtgcca	ttgaagaact	gttgcactg	gcaggaaaac	agttaaaaga	gtatgtcgaa	1500

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92	ggttatcg	tc agtttctgga	ctattcacgc	gcccgttta	aagaaggcta	tctgaagctc	1680
94	ggtactgtcc	ctttttatc	gttcagagac	atgctcgcg	ccgcaccc	actggcgaaa	1740
96	ctgcaggcat	ggagaaggct	ttacagtaag	gttgcagg	ttt acatcga	aga tgaacatctg	1800
98	cgccaggcgt	tttcttcca	ctcgctgtt	gtggccggca	atcccttcgc	cacccatcc	1860
100	atttatacgt	tgatacacgc	gctggagcgt	gagtggggcg	tctggttcc	gctggcgcc	1920
102	accggcgcat	tagttcagg	gatgataaag	ctgttcagg	atctgggtgg	cgaagtgcgt	1980
104	ttaaacgc	cca gagtc	gatggaaacg	acagaaaca	agattgaagc	cgtgcattt	2040
106	gaggacgg	tcgc	gcagg	ttt	gacgc	aggcc	2100
108	tatcg	gac	ttt	gtt	atgc	aggatgt	2160
110	aagcgc	atg	actct	ttt	gtt	gatc	2220
112	ctcg	gc	acac	gggtt	ttt	cgatgtt	2280
114	aatcat	gat	gc	ctc	atc	tcgc	2340
116	tcgt	ca	cgt	ttt	gcgg	actgt	2400
118	ggc	acc	cg	ttt	gcgg	ttt	2460
120	tac	ctt	gag	ttt	gc	ttt	2520
122	acg	cc	ttt	ttt	tc	ttt	2580
124	cccg	ttt	cc	ttt	tc	ttt	2640
126	ctc	tac	ctt	ttt	tc	ttt	2700
128	gca	aaa	agg	ttt	gt	ttt	2760
130	ccgat	gtt	tc	aa	at	ttt	2820
132	cgat	gatt	at	ttt	gt	ttt	2880
134	gcat	gac	gtt	ttt	ttt	ttt	2940
136	acgc	gat	gat	ttt	ttt	ttt	3000
138	ctat	gtt	act	ttt	ttt	ttt	3060
140	aac	acc	aaa	ttt	ttt	ttt	3120
142	aat	gaa	agg	ttt	ttt	ttt	3180
144	tgg	gac	cc	ttt	ttt	ttt	3240
146	gtt	ctc	tc	aa	cc	cc	3300
148	cata	at	g	cc	cc	cc	3360
150	ctca	ac	ct	tt	tt	tt	3420
152	acc	ca	tt	tt	tt	tt	3480
154	aa	gata	aa	gg	tt	tt	3540
156	agg	ag	at	ttt	ttt	ttt	3600
158	gagg	agg	gt	ttt	ttt	ttt	3660
160	tgt	tcg	tc	ttt	ttt	ttt	3720
162	cac	ttt	tc	ttt	ttt	ttt	3780
164	agat	gc	ttt	ttt	ttt	ttt	3840
166	aagc	att	tc	ttt	ttt	ttt	3900
168	tct	ttt	tc	ttt	ttt	ttt	3960
170	ttt	gtat	ttt	ttt	ttt	ttt	4020
172	tag	ttt	aa	ttt	ttt	ttt	4080
174	caga	acc	gt	ttt	ttt	ttt	4140
176	ac	gag	cc	ttt	ttt	ttt	4200
178	gt	gt	cc	ttt	ttt	ttt	4260
180	cctt	gg	cc	ttt	ttt	ttt	4320
182	cgt	ca	cc	ttt	ttt	ttt	4380
184	ca	agc	gg	ttt	ttt	ttt	4440

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188	ttaggagtag	gccaagacgt	tttacctcg	aactatgtt	atgacagagg	agccggccg	4560
190	cgcctatgg	gccatctatg	tgtggtag	gaggacagat	gagctttag	atggccaaa	4620
192	cgcctactac	attacaccaa	cagcttgg	ccggggag	aagagactt	aggatctgtt	4680
194	cacgggacgt	ccttacgaca	tgctttagtgc	cgctctct	gataccatct	caaggttccc	4740
196	catagacatt	cagccattca	gggacatgt	tgaaggatg	aggagtgtc	ttaggaagac	4800
198	aaggtaatac	aacttcgacg	agctctacat	gtactgctac	tatgttctg	gaactgtcgg	4860
200	gttaatgagc	gtacctgtga	tgggcatcgc	aaccgagtct	aaagcaacaa	ctgaaagcgt	4920
202	atacagtgt	gccttggtc	tgggaaattgc	gaaccaactc	acgaacatac	tccggatgt	4980
204	tggagaggat	gctagaagag	gaaggatata	tttaccacaa	gatgagctt	cacaggcagg	5040
206	gctctctgt	gaggacatct	tcaaagggtt	cgtcacgaac	cggtggagaa	acttcatgaa	5100
208	gaggcagatc	aagaggccca	ggatgtttt	tgaggaggca	gagagagggg	taactgagct	5160
210	ctcacaggct	agcagatggc	cagtatggc	ttccctgtt	ttgtacaggc	agatcctgg	5220
212	tgagatcgaa	gccaacgact	acaacaactt	cacgaagagg	gcgtatgtt	gtaaaggaa	5280
214	gaagttgcta	gcacttcctg	tggcatatgg	aaaatcgcta	ctgctccat	tttcattttag	5340
216	aaatggccag	acctagggcc	atgcaggccg	atccccgatc	gttcaaacat	ttgcaataa	5400
218	agtttcttaa	gattgaatcc	tgttgcgcgt	cttgcgtat	ttatcatata	atttctgtt	5460
220	aattacgtta	agcatgtat	attaacatg	taatgtat	cgttatttt	gagatgggtt	5520
222	tttatgatta	gagtccgc	attatacatt	taatacgcga	tagaaaacaa	aatatagcgc	5580
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233 <213> ORGANISM: SYNTHETIC - 12421

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Same Error

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242	acaatatcat	gagtaatgt	tgagcattat	gggaccacga	aataaaaaga	acattttgtat	180
244	gagtcgtgt	tcctcgat	gcctcaaaag	ttctctcacc	ccggataaga	aacccttaag	240
246	caatgtgca	agttgcatt	ctccactgac	ataatgc	ataagatatc	atcgatgaca	300
248	tagcaactca	tgcatacat	catgcctc	tcaacctatt	cattcctact	catctacata	360
250	agtatcttca	gctaaatgtt	agaacataaa	cccataagtc	acgtttgcgt	agtatttaggc	420
252	gtgacacat	acaaatcaca	gactcaagca	agataaagca	aatgtatgt	tacataaaac	480
254	tccagagcta	tatgtcatat	tgcaaaaaga	ggagagctt	taagacaagg	catgactcac	540
256	aaaaattcat	ttgccttcg	tgtcaaaaag	aggagggtt	tacattatcc	atgtcatatt	600
258	gcaaaagaaa	gagagaaga	acaacacaat	gctgcgtaa	ttatacatat	ctgtatgtcc	660
260	atcattattt	atccacottt	cgtgtaccac	acttcata	tcatgagtc	tttcattgtct	720
262	ggacattaac	aaactctatc	ttaacattt	gatgcagag	cctttatctc	actataaaatg	780
264	cacgatgatt	tctcattgtt	tctcaca	agcattcagt	tcattatgtcc	tacaacaacg	840
266	aattcggctt	cccggtaca	gggtaaattt	ctagttttc	tccttcattt	tcttggtag	900
268	gaccottttc	tcttttattt	tttttgcgt	ttgatcttc	ttttaactga	tctattttt	960
270	aattgattgg	ttatcggt	aatattat	agcttaact	gataatgt	ttactttatt	1020
272	tctgtgtct	ttgatcat	tgatgttac	agaaccgtcg	actctagaga	agccat	1080
274	atcgccgcca	ccatggctt	tatgtat	tcttcgcgt	tgacaacagt	cagccgtgcc	1140
276	tctagggggc	aatccgccc	agtggctca	tgcggcc	tcaaataccat	gactggattc	1200
278	ccagtgaaga	aggtaacac	tgacattact	tccattacaa	gcaatgg	aaagat	1260
280	tgcataaaac	caactacgg	attgggtca	ggcttcgg	gcctggact	ggcaattcg	1320
282	ctacaagctg	cgggatccc	cgttact	tttgcataac	gtgataaacc	cggcggc	1380
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Input Set : A:\70237USPCT SEQUENCE LISTING.txt

Output Set: N:\CRF4\09282005\J549352.raw

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290	gataacgat	aaaccggc	cgaagcgc	attcagcgt	ttaatcccc	cgatgtcgaa	1620	
292	ggttatcg	tc	agtttctg	gat	cttacac	gcgggtt	1680	
294	ggtactgt	cc	ctttttat	gtt	cagagac	atgcttc	ccgcac	1740
296	ctgcaggc	at	ggagaagg	gtt	acagtaa	gttgc	actggc	1800
298	cggcaggc	gtt	tttcttcc	ctcgctgt	gttgc	gttgcgg	atcccttc	1860
300	attatacgt	tgatac	acacgc	gctggagc	gagtg	ggcgt	tctgg	1920
302	accggcgc	cat	tagtccagg	gatgataa	ctgtt	cagg	atctgg	1980
304	ttaaacgc	ca	gagtca	gatggaa	acagaa	acatc	gaa	2040
306	gaggacgg	tc	gcagg	ttc	gacgca	gtcg	gttca	2100
308	tatcgcg	acc	tgttaa	gcca	gcacc	tttgc	gcca	2160
310	aagcgc	at	gtaact	ctct	gttgc	tattt	gttgc	2220
312	ctcg	gc	atc	acacgt	tttgc	cg	tttgc	2280
314	aatcatgat	g	gc	ctcg	caga	ggactt	ctca	2340
316	tcgtc	act	gg	cg	cttgc	actat	ctgc	2400
318	ggcaccgc	ga	ac	ctcg	act	ggttgc	gac	2460
320	tac	ttgc	aggc	ac	attacat	gc	cttgc	2520
322	acgc	cg	tttgc	ca	ccagctt	at	catgc	2580
324	cccg	tttgc	cc	ca	gagc	cttgc	cc	2640
326	ctct	ac	cttgc	cc	tcggc	gagg	ca	2700
328	gcaaa	agc	ga	cagg	tttgc	gt	atgc	2760
330	cgc	atc	ttgc	ca	aaatgg	tctt	atgc	2820
332	cgc	at	ttgc	aa	tttgc	tttgc	atgc	2880
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336	acgc	at	tttgc	tttgc	tttgc	tttgc	tttgc	3000
338	ctat	gttact	agatc	gggc	ttaata	aggct	tgtt	2820
340	aacac	aaaa	tat	gcaca	g	tttgc	tttgc	3120
342	aatgaa	agaa	gat	gttgc	tttgc	tttgc	tttgc	3180
344	tgg	gacc	aa	aa	aa	aa	aa	3240
346	gtt	ctc	tc	cc	ggata	aa	cc	3300
348	cata	at	gc	aa	at	at	at	3360
350	ctca	ac	ct	tc	at	ct	tc	3420
352	acc	ata	gt	tt	gt	tt	gt	3480
354	aa	gata	aa	gg	at	tt	gg	3540
356	agg	ag	aa	gg	at	tt	gg	3600
358	gagg	agg	gt	tt	tt	tt	tt	3660
360	tgt	tcgt	ca	tt	tt	tt	tt	3720
362	cact	tc	at	tc	tt	tt	tt	3780
364	agat	gc	at	tt	tt	tt	tt	3840
366	aagc	attc	tc	tt	tt	tt	tt	3900
368	tct	at	tc	tt	tt	tt	tt	3960
370	ttt	gat	ttt	ttt	ttt	ttt	ttt	4020
372	tag	ttt	aa	tc	ttt	ttt	ttt	4080
374	caga	acc	gt	tt	tt	tt	tt	4140
376	ac	gag	ct	tt	tt	tt	tt	4200
378	gt	gt	cc	tt	tt	tt	tt	4260
380	cctt	gg	cc	cc	cc	cc	cc	4320
382	cgt	ca	cc	cc	cc	cc	cc	4380

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Input Set : A:\70237USPCT SEQUENCE LISTING.txt
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388	tgaggagtat	gccaagacgt	tttacctcg	aactatgtt	atgacagagg	agccgcgccc	4560
390	cgcctatgg	gcccattatg	tgtggtag	gaggacagat	gagctttag	atggccaaa	4620
392	cgcctactac	attacaccaa	cagcttgg	ccggggag	aagagactt	aggatctgtt	4680
394	cacgggacgt	ccttacgaca	tgcttgc	cgctctct	gataccatct	caaggccc	4740
396	catagacatt	cagccattca	gggacatgt	tgaaggat	aggagtgt	ttaggaagac	4800
398	aaggtaaac	aacttcgacg	agctctacat	gtactgctac	tatgttgc	gaactgtcg	4860
400	gttaatgagc	gtaccagtga	tgggcatcg	atccgatct	aaagcaacaa	ctgaaagcgt	4920
402	gtacagtgc	gccttggctc	tcggaaattgc	gaaccaactc	acgaacatac	tccggatgt	4980
404	tggagaggat	gctagacgag	gaaggatata	tttaccacaa	gatgagctt	cacaggcagg	5040
406	gctctctgtat	gaggacatct	tcaaaagggt	cgtcacgaa	cggtggagaa	acttcatgaa	5100
408	gaggcagatc	aagaggccca	ggatgtttt	tgaggaggca	gagagagggg	taactgagct	5160
410	ctcacaggct	agcagatggc	cagtatggc	ttccctgtt	ttgtacaggc	agatcctgga	5220
412	ttagatcgaa	gccaacgact	acaacaactt	cacgaagagg	gcgtatgtt	gtaaaggaa	5280
414	gaagttgcta	gcacttcctg	tggcatatgg	aaaatcgct	ctgctccat	tttcatttgag	5340
416	aaatggccag	acctaggccc	atgcaggcc	atccccgatc	gttcaaacat	ttgcaataaa	5400
418	agtttcttaa	gattgaatcc	tgttgcgtt	cttgcgtat	ttatcatata	atttctgtt	5460
420	aattacgtta	agcatgtat	attaacatg	taatgcata	cgttatttat	gagatgggtt	5520
422	tttatgatta	gagtccgca	attatacatt	taatacgcga	tagaaaacaa	aatatagcgc	5580
424	gcaaaactagg	ataaaattatc	gcgcgcgg	tcatctatgt	tactagatcg		5630
427	<210> SEQ ID NO: 3						
429	<211> LENGTH: 5180						
431	<212> TYPE: DNA						
433	<213> ORGANISM: <u>SYNTHETIC - 12422</u>						
437	<400> SEQUENCE: 3						

Samer Error
organism Can be Either
Artificial,
Unknown,
Or Genus
Species.
Pls see
Item FF
100%
Error Sum-
mary Sheet

438	gttaatcatg	gtgttaggcaa	cccaaataaa	acaccaaaat	atgcacaagg	cagtttgc	60
440	tattctgtat	tacagacaaa	actaaaagta	atgaaagaag	atgtgggtt	agaaaaggaa	120
442	acaatatcat	gagtaatgt	tgagcattat	gggaccacga	aataaaaaga	acatttgtat	180
444	gagtcgtat	tcctcgat	gcctcaaaag	ttctctcacc	ccggataaga	aacccttaag	240
446	caatgtgca	agtttgcatt	ctccactgac	ataatgcata	ataagataatc	atcgatgaca	300
448	tagcaactca	tgcatacat	catgccttc	tcaacctatt	cattctact	catctacata	360
450	agtatcttca	gctaaatgtt	agaacataaa	cccataagt	acggttgc	agtatttaggc	420
452	gtgacacatg	acaaatcaca	gactcaagca	agataaagca	aatatgttgc	tacataaaaac	480
454	tccagagcta	tatgtcata	tgcaaaaaga	ggagagctt	taagacaagg	catgactcac	540
456	aaaaattcat	ttgcctttcg	tgtcaaaaag	aggagggtt	tacattatcc	atgtcatatt	600
458	gcaaaaagaaa	gagagaaaaga	acaacacaat	gctgcgtaa	ttatacatat	ctgtatgtcc	660
460	atcattattc	atccacctt	cgtgtaccac	acttcata	tcatgatgt	tttcattgtct	720
462	ggacattaaac	aaactctatc	ttaacattt	gatgcacag	cctttatctc	actataaatg	780
464	cacgatgatt	tctcattgtt	tctcataaaa	agcattcgt	tcattatgtt	tacaacaacg	840
466	aattcggctt	cccaaatcgc	cgccaccat	gtttctatg	tatccttcc	cgctgtgaca	900
468	acagtccagcc	gtgcctctag	ggggcaatcc	gccgcagtgg	ctccattcgg	cggcctcaaa	960
470	tccatgactg	gattcccagt	gaagaagg	aacactgaca	ttacttccat	tacaagcaat	1020
472	ggtggaaagag	taaagtgcat	gaaaccaact	acggtat	gtgcaggctt	cggcgcctg	1080
474	gcactggcaa	ttcgctaca	agctgcgggg	atccccgtt	tactgttgc	acaacgtat	1140
476	aaacccggcg	gtcggctt	tgtctacgag	gatcagggtt	ttaccttgc	tgcaggcccc	1200
478	acggttatca	ccgatcccag	tgccattgaa	gaactgttt	cactggcagg	aaaacagttt	1260
480	aaagagtatg	tcgaactgt	gccggttac	ccgtttacc	gcctgttttgc	ggagtcatgg	1320
482	aaggcttttta	attacgataa	cgatcaaacc	cggtcgaa	cgcagattca	gcagttat	1380

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/28/2005
PATENT APPLICATION: US/10/549,352 TIME: 13:53:53

Input Set : A:\70237USPCT SEQUENCE LISTING.txt
Output Set: N:\CRF4\09282005\J549352.raw

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings. Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/549,352

DATE: 09/28/2005

TIME: 13:53:53

Input Set : A:\70237USPCT SEQUENCE LISTING.txt
Output Set: N:\CRF4\09282005\J549352.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2513 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:2517 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:2517 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:22, <213>
ORGANISM:Artificial Sequence
L:2517 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22, Line#:2517